### **DoD Solid Waste Diversion**

Environment, Energy Security & Sustainability Symposium & Exhibition

Edmund D. Miller

Office of Deputy Under Secretary of Defense (Installations & Environment)

May 10, 2011

maintaining the data needed, and c including suggestions for reducing	lection of information is estimated to ompleting and reviewing the collect this burden, to Washington Headqu uld be aware that notwithstanding an DMB control number.	ion of information. Send comments is arters Services, Directorate for Infor	regarding this burden estimate of mation Operations and Reports	or any other aspect of the 1215 Jefferson Davis	is collection of information, Highway, Suite 1204, Arlington
1. REPORT DATE 10 MAY 2011	2 DEPORT TYPE			3. DATES COVERED <b>00-00-2011 to 00-00-2011</b>	
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER	
DoD Solid Waste Diversion				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT  Approved for public release; distribution unlimited					
	OTES DIA Environment, I 1 in New Orleans, L	•	ustainability (E2	S2) Symposi	um & Exhibition
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF: 17. LIMITATION				18. NUMBER	19a. NAME OF
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	Same as Report (SAR)	OF PAGES 17	RESPONSIBLE PERSON

**Report Documentation Page** 

Form Approved OMB No. 0704-0188

#### **Outline**

OSD Policy & Program

Accountability

Issues/Challenges

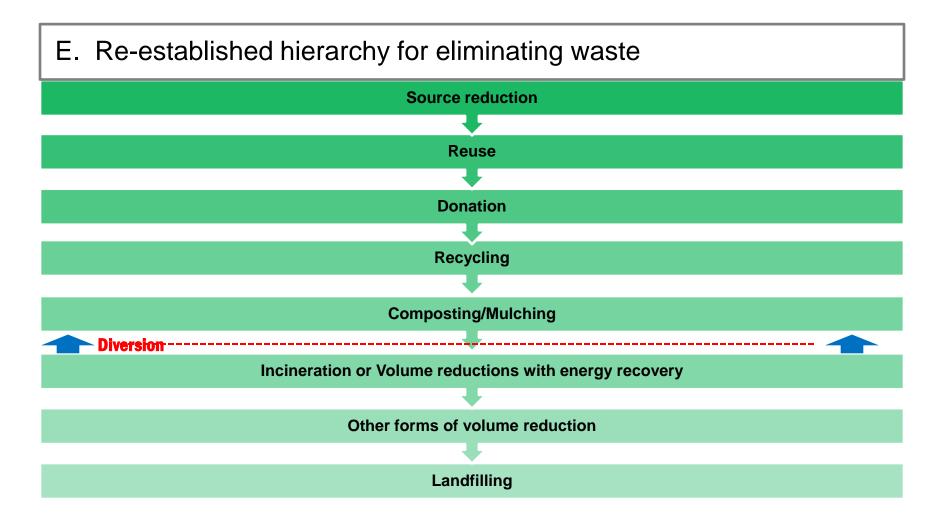
**Future Direction** 

- 10 USC Section 2577
  - establishment of qualified recycling program
- II. 32 CFR 172
  - process for disposal of proceeds from sales of DoD surplus personal property
- III. DoD Instruction 4715.4, "Pollution Prevention," June 18, 1996
  - A. Established environmental hierarchy for managing wastes
  - B. Required establishment of cost-effective waste prevention and recycling programs to <u>reduce non-hazardous solid waste</u>

- C. Defines "Recyclable Materials" to include paper, newspaper, cardboard, plastic, metal cans, glass, used oil, batteries, and tires.
- D. Defined "Excluded Materials" from recycling to include precious metals, hazardous waste, fuels, material required to be demilitarized or mutilated, scrap from demilitarization, Munitions List items, and Commerce Control items.

- IV. Integrated Solid Waste Management (ISWM) DUSD(I&E) policy memorandum dated February 1, 2008
  - A. Based on data successful DoD recycling programs
  - B. Supported Executive Order 13423, "Strengthening Federal Environmental, Energy, and Transportation Management," January 24, 2007
  - C. Establish solid waste diversion goals for 2010
  - D. Defined ISWM as:

A comprehensive approach to managing non-hazardous solid waste that encompasses waste prevention, recycling, composting, and disposal programs.



# Integrated Solid Waste Management (ISWM)

#### What does ISWM mean?



- V. EO 13514, "Federal Leadership in Environmental, Energy, and Economic Performance," October 9, 2009
  - A. Promote Pollution Prevention and eliminate waste by:
    - Source reduction
    - 2. Diverting non-hazardous solid waste
    - 3. Diverting C&D material and debris
    - 4. Increase diversion of compostable and organic material from waste stream

#### B. Other areas

- 1. Reduce energy and water use
- 2. Reduce greenhouse gases
- Increase sustainable energy
- 4. Increase acquisition of sustainable goods
- 5. Improve electronics stewardship
- C. Develop a DoD Strategic Sustainability Performance Plan (SSPP)

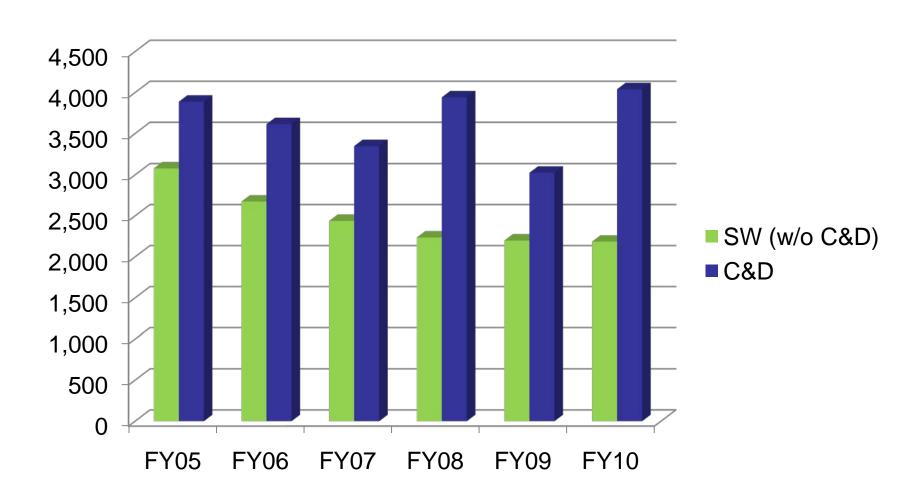
# Accountability

- I. Solid Waste Diversion Metrics Progression
  - A. ADUSD(ESOH) Memo dated 10/12/04
    - 1. Per capita generation non-hazardous solid waste
    - 2. Diversion rate of non-hazardous solid waste with and without construction & demolition (C&D) debris
    - 3. Economic benefit
    - 4. Goal continuous improvement
  - B. 2008 DoD Integrated Solid Waste Management
     Policy established 2010 diversion goals
    - 1. 40% for non-hazardous solid waste
    - 2. 50% for C&D debris

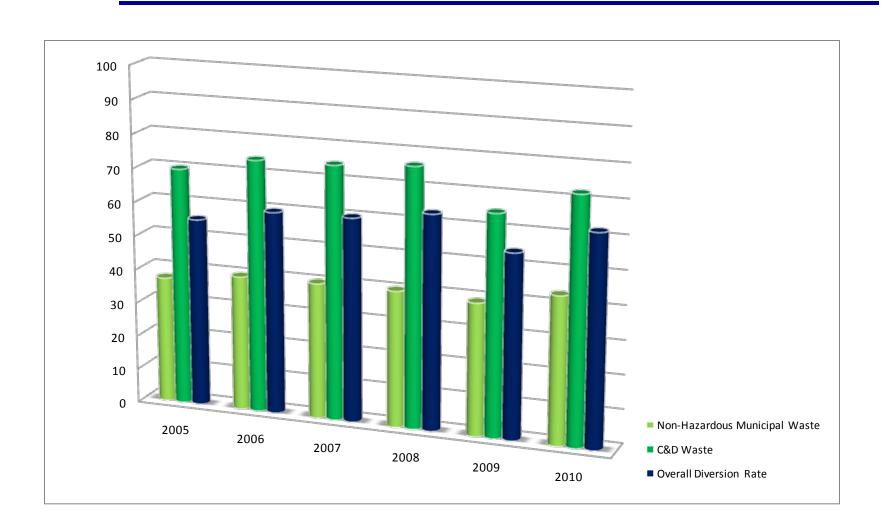
# Accountability

- C. Annual Reporting in DoD SSPP (per EO 13514) diversion goals for 2015
  - 1. 50% non-hazardous solid waste and
  - 2. 60% for C&D debris
- D. Other Reporting Requirements
  - OSD Environmental Management Reviews metrics and other hot issues
  - 2. Annual Report to Congress on Defense Environmental Programs
  - 3. RCRA 6002 biennial report to Congress Federal agency compliance with recycled content and bio-based procurement requirements

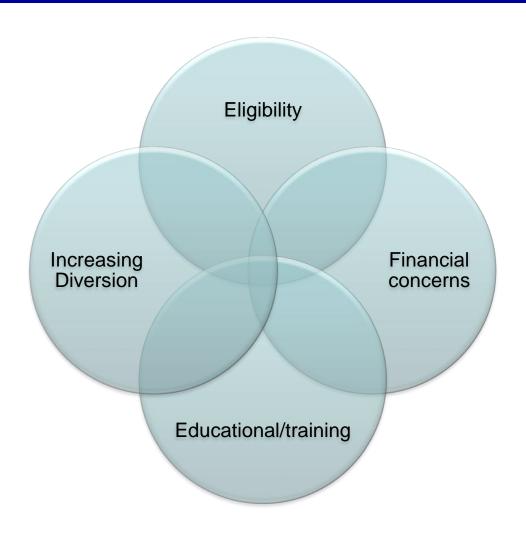
# DoD Solid Waste Generated (K Tons)



## DoD Solid Waste Diversion Rate (%)



# Issues/Challenges



#### **Future Direction**

#### I. Implement DoD's SSPP

- A. Build stronger requirements for recycling and composting
- B. Report increased diversion rates

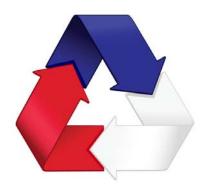
#### II. Develop new DoD Instruction

- A. Consolidate various policies
- B. Compliance with Federal, State, and local recycling requirements
- C. Require ISWM approach with involvement of base commander and facilities manager

#### **Future Direction**

- III. Improve qualified recycling program management accountability
  - A. Training program and opportunities
  - B. Inspection and audits
  - C. Development of Solid Waste Diversion list
- IV. Develop guidance on sale of small arms ammunition per Section 346 of the FY11National Defense Authorization Act

# **Questions?**



Ed Miller 703-604-1765 edmund.miller@osd.mil